

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :

Keith Holt

Serial No. : 10/066,270

Filed : January 31, 2002

For : Method For Using CRC As Metadata To Protect Against Drive Anomaly Errors in a Storage Array

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**Group Art Unit :** 2184

**Examiner :**

**Atty Docket :** / 01-869

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# OFFICIAL

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**Manu Kashyap**

3/18/04

Date \_\_\_\_\_

Signature \_\_\_\_\_

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached form, copies of which are attached, may be material to examination of above-identified application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR 1.56 and 1.97.

It is requested that the information disclosed herein be made of record in the application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

If it is determined that any additional fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 12-2252.

**LSI Logic Corporation**  
1551 McCarthy Blvd., MS D-106  
Milpitas, CA 95035  
408-433-7475

Date: 3-17-04

Respectfully submitted,

1488.

**Sandeep Jaggi**

Reg. No. 43,331



PTO/SB/09A (10-98)

Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Complete if Known

|                      |                  |
|----------------------|------------------|
| Application Number   | 10/066,270       |
| Filing Date          | January-31, 2002 |
| First Named Inventor | Keith Holt       |
| Group Art Unit       | 2184             |
| Examiner Name        |                  |
| Attorney Docket No.  | / 01-869         |

Sheet 1 of 1

## **U.S. PATENT DOCUMENTS**

| Examiner<br>Initials | Cite<br>No. | U.S. Patent Document |                         | Name of Patentee or<br>Applicant of Cited Document | Date of Publication<br>of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear |
|----------------------|-------------|----------------------|-------------------------|----------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------|
|                      |             | Number               | Kind Code<br>(if known) |                                                    |                                                        |                                                                                 |
|                      |             | 5,574,851            |                         | Rathunde                                           | 11-12-1996                                             |                                                                                 |
|                      |             | 5,826,001            |                         | Cheung, Cyrus C. (Hercules,                        | 06-10-2003                                             |                                                                                 |
|                      |             | 6,148,368            |                         | Rodney A. DeKoning                                 | 11-14-2000                                             |                                                                                 |
|                      |             | 6,389,432            |                         | Pothapragada et al.                                | 05-14-2002                                             |                                                                                 |
|                      |             | 6,675,176            |                         | Shinkai et al.                                     | 01-06-2004                                             |                                                                                 |

Examiner  
signatureDate  
considered

6/18/2004

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## FAX COVER SHEET

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LSI LOGIC CORPORATION  
Office of General Counsel  
1621 Barber Lane  
M/S D-106  
Milpitas, CA 95035  
Fax: (408) 433-7460

Date: March 18, 2004  
To Name: USPTO - Box: IDS  
Fax: (703) 872-9306  
Phone: (703) 305-8283

From: Name: Manu Kashyap, Intellectual Property Paralegal  
Corporate Legal Dept.  
Telephone: (408) 433-7475  
Fax: (408) 433-7460  
Re: 10/066,270

Number of Pages Including this Page 5

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MESSAGE:

US Serial No.: 10/066,270  
Filing Date: January 31, 2002  
Group Art Unit: 2184  
Docket No: 01-869  
Examiner:  
Box: IDS

Please notify us immediately if any pages are not received.

Please type a plus sign (+) inside this box →



PTO/SB/Z1 (12/97)

Approved for use through 9/30/2000. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <h1>TRANSMITTAL FORM</h1> <p>(to be used for all correspondence after initial filing)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Application Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10/066,270       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Filing Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | January-31, 2002 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | First Named Inventor                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Keith Holt       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Group Art Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2184             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Examiner Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |
| Total number of pages in this submission                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Attorney Docket Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 01-869           |
| ENCLOSURES (check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Response<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits(s)/declaration(s)<br><input type="checkbox"/> Extension of time request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers<br><input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Paper<br><input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition<br><input type="checkbox"/> To Convert a Provisional Application<br><input type="checkbox"/> Power of Attorney, Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Small Entity Statement<br><input type="checkbox"/> Request for Refund | <input type="checkbox"/> After Allowance Communication to Group<br><input type="checkbox"/> Appeal Communication to Board of Appeals and<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below):<br>1. Return address postcard for PTO mailroom to date stamp. | Remarks          |
| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| Individual Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sandeep Jaggi, Reg. No. 43,331, Phone: [+1] 408-433-7475                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3-17-04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| CERTIFICATE OF MAILING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: <u>MARCH 18, 2004</u>                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| Typed or printed name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Manu Kashyap, Phone: [+1] 408-433-7475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date 3/18/04     |

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PTO/SB/17 (2/98)

Approved for use through 9/30/2000. QMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL**Patent Fees are subject to annual revision on October 1.  
These are the fees effective October 1, 1997.Small Entity payments must be supported by a small entity statement,  
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.  
See 37 C.F.R. 1.27 and 1.28.**TOTAL AMOUNT OF PAYMENT**(\$) **0**

Complete if Known

|                      |                  |
|----------------------|------------------|
| Application Number   | 10/066,270       |
| Filing Date          | January 31, 2002 |
| First Named Inventor | Keith Holt       |
| Group Art Unit       | 2184             |
| Examiner Name        |                  |
| Attorney Docket No.  | / 01-869         |

**METHOD OF PAYMENT (check one)**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any over payment to:

Deposit  
Account  
Number

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Deposit  
Account  
Number

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Charge Any  
Additional Fee  
required Under 37Charge the Issue Fee Set in  
37 C.F.R. 1.18 at the  
Mailing of the Notice of

- 2.
- ☐
- Payment Enclosed:



Check

Money  
Order

Other

**FEE CALCULATION****1. BASIC FILING FEE**

| Larg<br>eFee<br>Code (\$) | Entt<br>yFee<br>Code (\$) | Larg<br>eFee<br>Code (\$) | Entt<br>yFee<br>Code (\$) | Fee Description        | Fee Paid |
|---------------------------|---------------------------|---------------------------|---------------------------|------------------------|----------|
| 101                       | 790                       | 201                       | 395                       | Utility filing fee     |          |
| 106                       | 330                       | 206                       | 185                       | Design filing fee      |          |
| 107                       | 540                       | 207                       | 270                       | Plant filing fee       |          |
| 108                       | 790                       | 208                       | 395                       | Reissue filing fee     |          |
| 114                       | 150                       | 214                       | 75                        | Provisional Filing fee |          |

**SUBTOTAL (1) (\$)** 0.00**2. EXTRA CLAIM FEES**

|                       | Extra Claim | Fee from<br>below | Fee Paid |
|-----------------------|-------------|-------------------|----------|
| Total claim           | -20**=      |                   |          |
| Independent<br>Claims | -3**=       |                   |          |
| Multiple Dependent    |             |                   |          |

\*\*or number previously paid, if greater; For Reissues, see below

| Larg<br>eFee<br>Code (\$) | Entt<br>yFee<br>Code (\$) | Larg<br>eFee<br>Code (\$) | Entt<br>yFee<br>Code (\$) | Fee Description                                           |
|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------------------------------------|
| 103                       | 22                        | 203                       | 11                        | Claims in excess of 20                                    |
| 102                       | 82                        | 202                       | 41                        | Independent claims in excess of 3                         |
| 104                       | 270                       | 204                       | 135                       | Multiple dependent claim, if not paid                     |
| 109                       | 82                        | 209                       | 41                        | **Reissue independent claims over original patent         |
| 110                       | 22                        | 210                       | 11                        | **Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2) (\$)** 0.00**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Larg<br>eFee<br>Code (\$) | Entt<br>yFee<br>Code (\$) | Larg<br>eFee<br>Code (\$) | Entt<br>yFee<br>Code (\$) | Fee Description                                                            | Fee Paid |
|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------------------------------------------------------|----------|
| 105                       | 130                       | 205                       | 65                        | Surcharge - late filing fee or oath                                        |          |
| 127                       | 50                        | 227                       | 25                        | Surcharge - late provisional filing fee or cover sheet                     |          |
| 139                       | 130                       | 139                       | 130                       | Non-English specification                                                  |          |
| 147                       | 2,520                     | 147                       | 2,520                     | For filing request for reexamination                                       |          |
| 112                       | 920*                      | 112                       | 920                       | Requesting publication of SIR prior to Examiner action                     |          |
| 113                       | 1,840*                    | 113                       | 1,840*                    | Requesting publication of SIR after Examiner action                        |          |
| 115                       | 110                       | 215                       | 55                        | Extension for reply within first month                                     |          |
| 116                       | 400                       | 216                       | 200                       | Extension for reply within second month                                    |          |
| 117                       | 950                       | 217                       | 475                       | Extension for reply within third month                                     |          |
| 118                       | 1510                      | 218                       | 755                       | Extension for reply within fourth month                                    |          |
| 128                       | 2,080                     | 228                       | 1,030                     | Extension for reply within fifth month                                     |          |
| 119                       | 310                       | 219                       | 155                       | Notice of Appeal                                                           |          |
| 120                       | 310                       | 220                       | 155                       | Filing a brief in support of an appeal                                     |          |
| 121                       | 270                       | 221                       | 135                       | Request for oral hearing                                                   |          |
| 138                       | 1,510                     | 138                       | 1,510                     | Petition to institute a public use proceeding                              |          |
| 140                       | 110                       | 240                       | 55                        | Petition to revive - unavoidable                                           |          |
| 141                       | 1,320                     | 241                       | 660                       | Petition to revive - unintentional                                         |          |
| 142                       | 1,320                     | 242                       | 660                       | Utility issue fee (or reissue)                                             |          |
| 143                       | 450                       | 243                       | 225                       | Design issue fee                                                           |          |
| 144                       | 670                       | 244                       | 335                       | Plant issue fee                                                            |          |
| 122                       | 130                       | 122                       | 130                       | Petitions to the Commissioner                                              |          |
| 123                       | 50                        | 123                       | 50                        | Petitions related to provisional application                               |          |
| 126                       | 240                       | 126                       | 240                       | Submission of Information Disclosure Statement                             |          |
| 581                       | 40                        | 581                       | 40                        | Recording each patent assignment per property (times number of properties) |          |
| 146                       | 790                       | 246                       | 395                       | Filing a submission after final rejection (37 CFR 1.129)                   |          |
| 149                       | 790                       | 249                       | 395                       | For each additional invention to be examined (37 CFR 1.129 (b))            |          |

Other fee (specify)

Other fee (specify)

**SUBTOTAL (3) (\$)** 0

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY**Typed or  
printed name

Sandeep Jaggi

Signature

Date

3/17/04

**Complete (if applicable)**

Reg. Number

43,331

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